

## Notes Guided Questions

1. The 6 most common atoms in living things are:
2. What atoms are present in both carbohydrates & fats?
3. Explain how sequence & location of atom interactions determine molecule structure.
4. What are the 4 major macromolecules in living things?
5. Review: what are some similarities & differences between RNA & DNA?
6. How does the structure of RNA meet its function? DNA?
7. How does directionality impact the function of DNA?
8. Describe the 3 types of R groups of amino acids.
9. Explain how a peptide bond forms, noting directionality.

10. What are the 4 levels of protein structure and what bonds hold them together?

11. If one of the amino acids with a sulfur group (from the bottom left diagram on p.8) were replaced by a non-sulfur atom, explain how the protein function would be altered.

12. Lipids are usually non-polar. What does this mean about their functional capabilities?

13. Explain how the structure of each carbohydrate polymer on p. 10 suits its function.

14. Explain how directionality plays a role in carbohydrate structure.